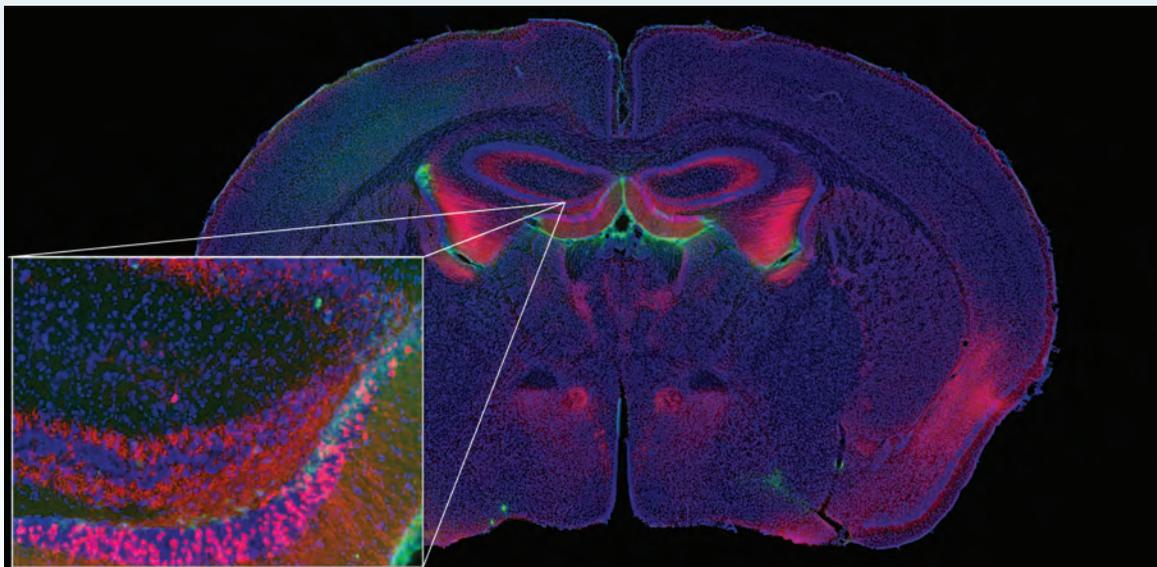


# Biolucida®

## Manage Big Image Data



Whole-slide scanners and confocal and light sheet microscopes have the ability to create vast image sets that can be challenging to view and manage. They are often comprised of very large files, potentially reaching tens of terabytes in size. These images are generated by a variety of microscopes and slide scanners and saved in a myriad of file formats. This causes compatibility issues in viewing, collaboration, and analysis. Biolucida solves these challenges.



### With Biolucida, you can:

- Quickly view and manage very large images (each image can be terapixels in size) generated with microscopes or slide scanners
- Access images over the internet with PC, Mac, or tablet
- Share images with just one person, a select group, or with the public
- View and share neuron reconstructions and stereological data generated with NeuroLucida and Stereo Investigator
- Publish large image data and metadata in journals



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## Manage Big Image Data



### FAQs

#### How does Biolucida work?

Biolucida consists of 3 parts: a server computer, Biolucida server software, and the Biolucida viewer. Together, the server computer and server software constitute a virtual central library where your slides are maintained and served. Biolucida can integrate into existing IT infrastructure, it can be set up in another location, or it can be hosted in the cloud with Amazon Web Services or Google Cloud.

The Biolucida server software allows educators and students to navigate through large images quickly — there is no waiting for images to download. This software runs behind the scenes and is not visible to users.

The viewer is the software application that instructors and students use to view, access, and share virtual slides. The viewer can run on any computer (PC or Mac) connected to the internet.

#### Can I set permissions?

Yes, administrators can set permissions for other users. For example, they can give users access to only a subset of virtual slides, or they can restrict users from annotating slides. Administrators can even lock navigational tools in virtual slides so users can't pan or zoom through images. This feature is particularly helpful when administering tests.

#### How large can the files be?

Biolucida efficiently serves very large virtual slides. A typical single image size is 10-50 gigabytes, but Biolucida can easily handle an image that exceeds terabytes.

#### Can I use images acquired with my slide scanner or my confocal microscope?

Yes, Biolucida supports images acquired with slide scanners from companies such as Huron, Aperio, Leica, Olympus, Zeiss and Hamamatsu. It also supports images and image stacks acquired with confocal microscopes from companies such as Zeiss, Olympus, and Leica.

#### Can I easily compare images?

Yes, Biolucida lets you easily compare multiple images simultaneously.

#### Can I focus through 3D virtual slides?

Yes, Biolucida supports 3D virtual slides and allows users to focus through image planes just like a microscope.

#### What viewing capabilities do I have?

Easily change magnifications (zoom in and out), pan, and focus. The macro view window gives you a low magnification overview image of your specimen to aid in navigation.

#### Which computer platforms do you support?

The Biolucida viewer runs on Mac and PC, and the Biolucida server software runs on Windows and Linux. The Biolucida web browser viewer also allows viewing slides on mobile platforms such as iPads.

Download the free Biolucida viewer at [biolucida.net/viewer](http://biolucida.net/viewer)



## About MBF Bioscience

A rich history of creating the future of neuroscience.

MBF Bioscience develops advanced tools for collecting and analyzing accurate, reproducible data from histological specimens, 2D and 3D microscope images, and freely moving *C. elegans* so that scientists can better understand brain diseases and processes at a cellular level.

Our products have helped researchers publish over 15,000 peer reviewed papers.

## What our customers say

“ MBF Bioscience is extremely responsive to the needs of scientists and is genuinely interested in helping all of us in science do the best job we can.

Sigrd Veasey, M.D.  
University of Pennsylvania

“ We've been very happy for many years with MBF products and the course of upgrades and improvements. Your service department is outstanding.

William E. Armstrong, Ph.D.  
University of Tennessee

